

Environmental Impact Analysis Process (EIAP)

CADD/GIS Technology Center
Army Engineer Research & Development Center
Vicksburg, Mississippi

http://tsc.wes.army.mil



Environmental Impact Analysis Process

Project Scope –

- Develop web-based electronic environmental checklist (decision tree) for Environmental Impact Analysis Process (EIAP).
- Incorporate SDSFIE compliant GIS in EIAP.

Center Project No. 01.040 – Use of GIS to Simplify EIAP

Project Oversight – Environmental FWG

Status -

- Part 1 Completed in June 2002.
- Part 2 Completed in July 2003.
- Part 3 Scheduled for development in Fiscal Year 2004.

Project Website –



By Jim Weaver / courtesy USFWS



Environmental Impact Analysis Process (EIAP)

- A method commonly used for ensuring that new construction projects and major maintenance activities are in compliance with National Environmental Policy Act (NEPA).
- Web enabled EIAP developed by CADD/GIS Technology Center can be used by all federal organizations to promote consistent compliance with NEPA.
- Originally based upon EIAP developed by Robins AFB, Georgia, and Patuxent River Naval Air Station, Maryland.



Environmental Impact Analysis Process

Environmental Checklist Organized by Environmental Pillars

1	Conservation	
2	Compliance	
3	Pollution Prevention	
4	Restoration	
5	Other	



Environmental Pillar No. 1 - Conservation

Section No. Section Theme		Number of Questions
1	Soil Disturbance	19
2	Critical Area and Coastal Zone	4
3	Historic Preservation	5
4	Endangered Species	2
5	Land Use	2
6	Tree Clearing	3
7	Bird/Aircraft Strikes	3
8	Deer Auto Collision	3
9	Aesthetics	1



Environmental Pillar No. 2 - Compliance

Section No.	Section Theme	No. of Questions
10	Storm Water and Wastewater	5
11	Pesticides	3
12	Hazardous Waste and Materials	4
13	Polychlorinated Biphenyls (PCB)	1
14	Air Quality (Emissions)	9
15	Drinking Water	5
16	Petroleum Systems	7
17	Oil Control	4
18	Groundwater Monitoring Wells	4
19	Asbestos	2
20	Lead	2



Environmental Pillar No. 3 – Pollution Prevention

Section No.	Section Theme	No. of Questions
21	Solid Waste and Recycling	1
22	Noise	2



Environmental Pillar No. 4 – Restoration

Section No.	Section Theme	No. of Questions
23	Capital Improvements	4
24	Installation Restoration	4



Environmental Pillar No. 5 – Other

Section No.	Section Theme	No. of Questions
25	Socioeconomics	3
26	Traffic	1
27	Environmental Justice	1



- Web-based application requires installation on server with Microsoft Active Server Page (ASP) software.
- Can be accessed via
 Internet using Internet
 Explorer or Netscape
 browser. Requires
 download and installation
 of free Macromedia
 Shockwave Player plug-in.



Welcome to Environmental Impact Analysis Process Checklist Website!

The CADD/GIS Technology Center's mission establishes a multi-agency vehicle to coordinate facilities, infrastructure, and environmental use of Computer-Aided Design and Drafting and Geographic Information Systems (CADD/GIS) activities within the Department of Defense (DoD) and with other participating governmental (federal, state and local) agencies, and the private sector. This includes setting standards, promoting system integration, supporting centralized acquisition, and providing assistance for the installation, training, operation, and maintenance of CADD/GIS and facilities management (FM) systems. This also includes directing specific application developments, promoting communications, developing and promoting standards, furnishing technical advice, interfacing with professional organizations and industry, evaluating technological developments, and recommending necessary CADD/GIS and FM policy to ensure the maximum benefits are received from these technologies.

The National Environmental Policy Act (NEPA) requires every federal agency to systematically evaluate the environmental effects of their proposal for projects and program. However, the statute implementing NEPA are not detailed. There have been several approaches on creating a guidance for implementing the NEPA. This website goal is to create a checklist that can address the federal aspects of this statute.

Project Website:

http://tsc.wes.army.mil/contacts/groups/FWG/Environmental/envprojects/01.040/01_040.htm







Welcome to Environmental Impact Analysis Process Checklist Website!

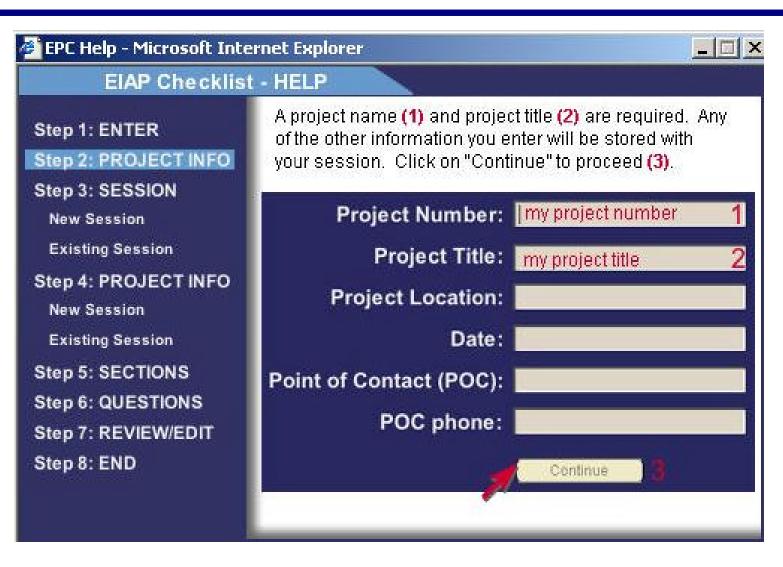
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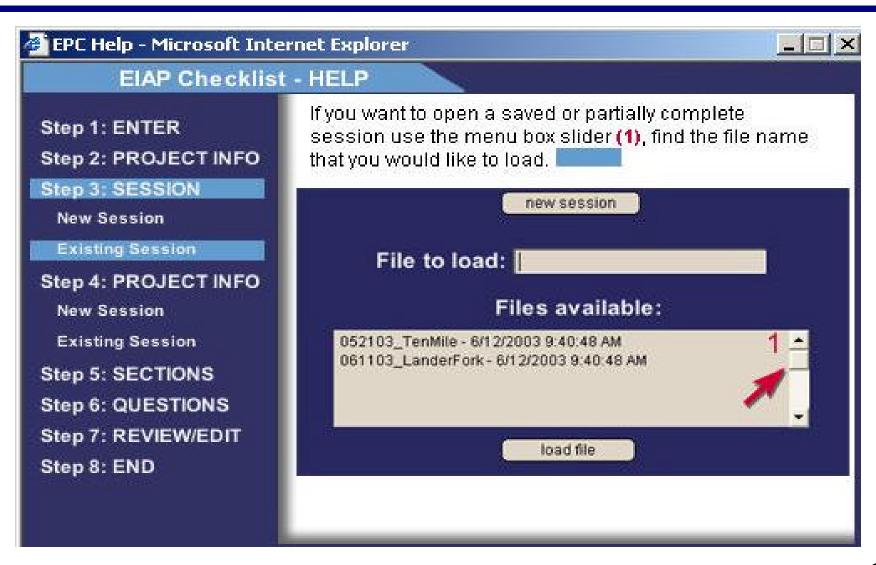








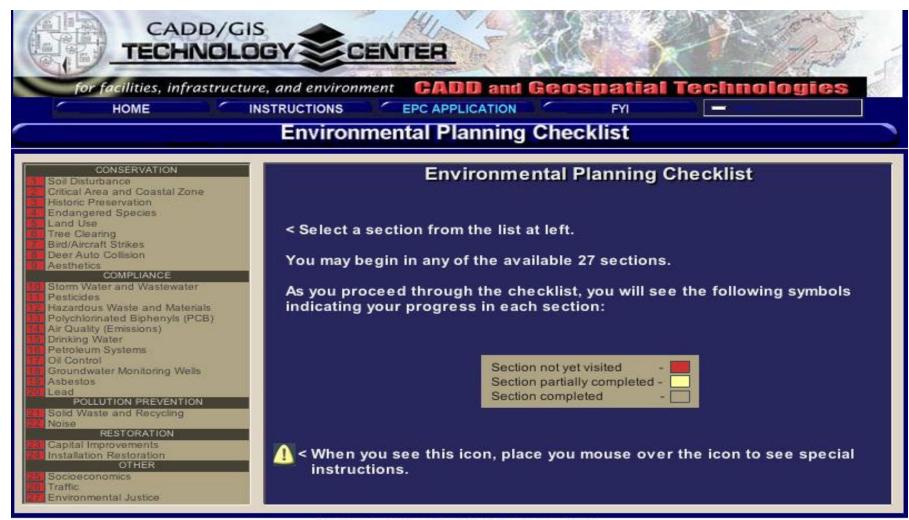




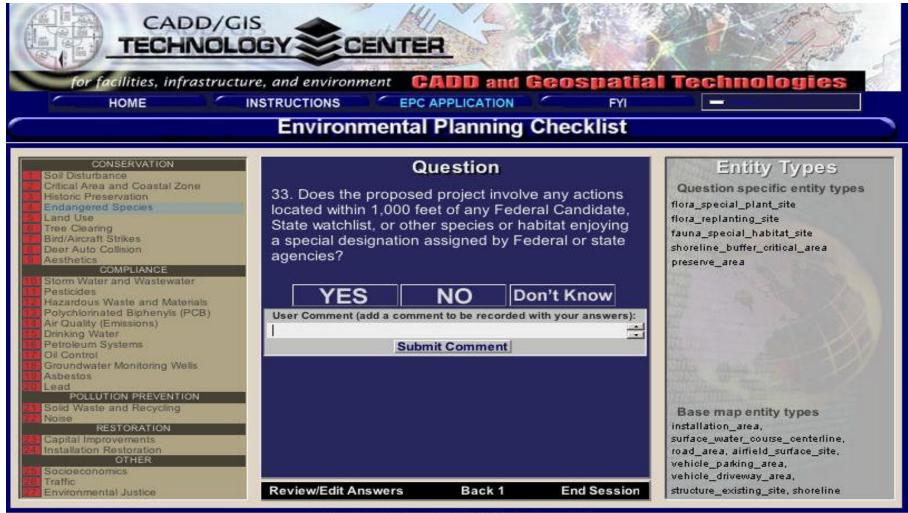


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for facilities, infrastru HOME	icture, and environme instructions Environme	EPC APPLICAT	ing Checklis	YI —	nologies
This is the starting point for ev navigate through a matrix of q	aluating proposed actio uestions in 27 sections.	ns for environment The matrix may re	quire you to contac	pliance. To evalua t a point of contact	within your division in
To:	Proponent:	ation may take som	e time. Please fill in	the information be	
Title of Proposed Action: Purpose and need for action:					_
Description of Proposed Action and Alternatives: Proponent Approval:		Į.	Da	ate Approved:	-
		Update (Checklist		

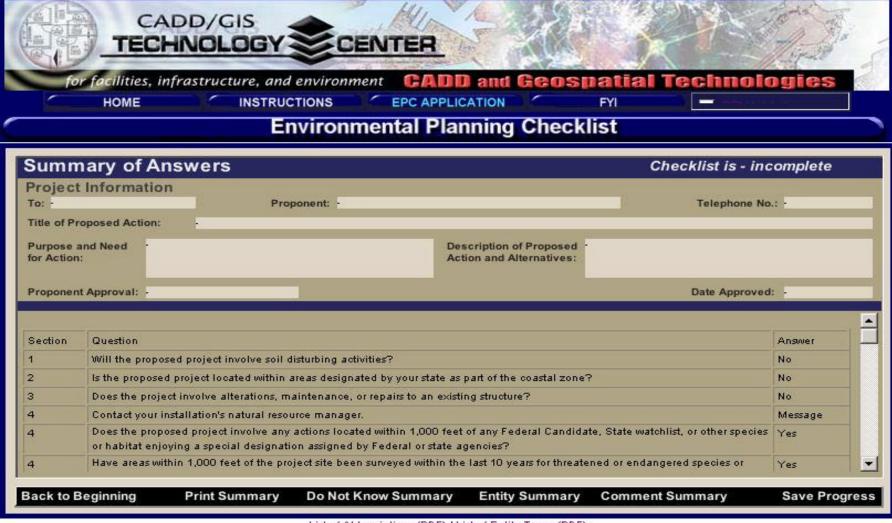














Summ	ary of	Required Entity Types		Checklist is - incomplete
To: -	Informat	Proponent: -		Telephone No.:
Purpose a for Action:	nd Need		Description of Proposed - Action and Alternatives:	
Proponent	Approval:			Date Approved: -
Section	Question	Entity Types		
base map		installation_area, surface_water_course_centerlin structure_existing_site, shoreline	e, road_area, airfield_surface_site, veh	icle_parking_area, vehicle_driveway_area,
2	20	hydrobasin_storage_area, watershed_drainage_area, shoreline_buffer_nobuild_area, shoreline_buffer_critical_area, shoreline, floodway_area		
3	24	structure_existing_site		
4	33	flora_special_plant_site, flora_replanting_site, fauna_special_habitat_site, shoreline_buffer_critical_area, preserve_area		
4	96	fauna_special_habitat_site, flora_special_plant_site, flora_replanting_site, shoreline_buffer_critical_area, preserve_area		
15	65	chemical_waste_polluted_groundwater_area		



QUESTIONS?

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CADD GIS Technology Center Internet URL:

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